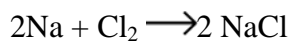


Write the formula for each material correctly and then balance the equation. There are some reactions that require completion. For each reaction, tell what type of reaction it is.

1. PROBLEM: sodium metal and chlorine react to make sodium chloride.

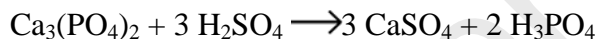
SOLUTION:



SYNTHESIS

2. PROBLEM: calcium phosphate and sulfuric acid make calcium sulfate and phosphoric acid.

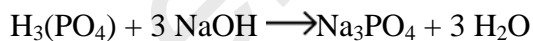
SOLUTION:



DOUBLE REPLACEMENT

3. PROBLEM: phosphoric acid plus sodium hydroxide.

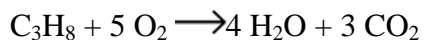
SOLUTION:



DOUBLE REPLACEMENT (NEUTRALIZATION)

4. PROBLEM: propane burns (with oxygen)

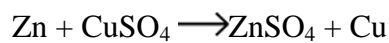
SOLUTION:



BURNING OF A HYDROCARBON

5. PROBLEM: zinc and copper II sulfate yield zinc sulfate and copper metal

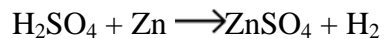
SOLUTION:



CATIONIC SINGLE REPLACEMENT

6. PROBLEM: sulfuric acid reacts with zinc

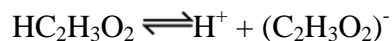
SOLUTION:



CATIONIC SINGLE REPLACEMENT

7. PROBLEM: acetic acid ionizes.

SOLUTION:



IONIZATION (NOTICE THAT IT IS REVERSIBLE)

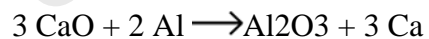
8. PROBLEM: steam methane to get hydrogen and carbon dioxide

SOLUTION:



9. PROBLEM: calcium oxide and aluminum make aluminum oxide and calcium

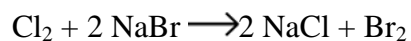
SOLUTION:



CATIONIC SINGLE REPLACEMENT

10. PROBLEM: chlorine gas and sodium bromide yield sodium chloride and bromine

SOLUTION:



ANIONIC SINGLE REPLACEMENT

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